We apply engineering and scientific principles to solve the world’s challenges — starting with yours. We provide engineering design, investigation and analysis to commercial and government clients worldwide. For more than 70 years, we have worked to explore, leverage and mature technologies, techniques and workflows to help our clients meet their goals.

**SPACE SYSTEMS** With 15+ years of experience in satellite guidance, navigation and control (GN&C), satellite autonomy and space situational awareness, we provide both engineering and research and development solutions that focus on on-orbit satellite servicing (OOS), rendezvous and proximity operations (RPO), and multiple-satellite swarm, formation and constellation control and management.

**ENGINEERING SERVICES** We help our clients and partners assess on-orbit operational risks, implement effective risk mitigation measures and perform post-event forensics. We apply expertise in artificial intelligence and machine learning (AI/ML) and multiple hypothesis tracking (MHT) to assess risks posed by both the space environment and other space objects. When paired with our structural engineering prowess, our advanced AI/ML products enable structural health assessment and characterization as well as early damage detection. The bottom line? We help our clients develop plans to enhance space-asset safety and we can determine – and document – what went wrong in case of a mishap.

**RESEARCH & DEVELOPMENT** We provide our partners and clients with specialized autonomy solutions for single- and multiple-satellite systems, including:

- Autonomous rendezvous, proximity operations and docking (ARPOD)
- Autonomous on-orbit verification and validation of the GN&C subsystem
- Autonomous fault prediction, diagnostics and correction
- Autonomous run-time assurance
- Autonomous distributed satellite systems control and resource management

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